#### 8. What is function? Discuss the benefits of using function.

#### Solution:

A function is the block of segments that perform same specifc and well defined task.

C program must contain one main function from where the execution of program begins. Every function must have an unique name.

## Types of function:

#### a. Library function:

Library function is a predefined function in a header file.

Example: printf(), scanf(), pow(), strcmp(), etc.

## b. User defined function:

User defined function is a function created by a user to perform the specific task as per their need.

Example: area(), display(), CSIT(), etc.

# Benefits of using a function:

• Functions increase **code reusability** by avoiding rewriting of same code over and over.

•If a program is divided into multiple functions, then each functions can be independently developed. So, **program development will be easier.** 

• Program development will be faster.

• Program **debugging** will be **easier**.

• Functions reduces program complexity.

•Length of the program can be reduced by using the functions at appropriate places.

•The **recursive call** is possible through function.

• Functions increases program readability.